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Appl. No. 10/724,459

Supplemental Amdt. dated June 25, 2007

Reply to Office action of Jan. 19, 2007 and Notice of Non-Compliant Amdt. of May 24, 2007

JUN 25 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11. (canceled)

12. (currently amended) A system for installing or extracting orthopedic or dental implants or cement from the bone structure of a patient, which system comprises:

a controller including an input adapted for receiving input signals and an output;

an input device adapted for providing an input signal to said controller;

a transducer connected to said controller output and adapted for providing a repeating,

variable motion in response to an output signal from said controller;

a tool connected to said transducer and adapted for fixedly engaging said implant or said cement;

said controller automatically varying said output therefrom in response to inputs thereto

from said input device, said controller inputs from said input device being

automatically adjusted corresponding to operating conditions of said system

associated with said implant or said cement; and

said transducer and said tool being adapted for vibrating and installing or dislodging said implant or said cement from said patient bone structure.

13. (original) The system according to claim 12, which includes:

said transducer having variable direction, frequency and amplitude, which are variably controlled by said controller.

14. (cancelled)

15. (cancelled)

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16. (currently amended) The system according to claim 12, which includes:
a sensor connected to said adapted for connection to a patient and/or said transducer, said
sensor being adapted to detect a condition associated with said patient and/or said
transducer;
said sensor being connected to said controller input and providing said input signals
thereat; and
said controller being adapted to automatically vary the operating parameters of said
transducer in response to controller input signals from said sensor.

17. (original) The system according to claim 12 wherein said controller is
adapted for automatically varying the frequency and amplitude of said transducer and is further
adapted for locking in an optimum frequency and amplitude for installing or extracting said
implant or said cement.

18. (cancelled)